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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ashok L. Cholli, Vijayendra Kumar, Ashish Dhawan, Jayant Kumar, Virinder Singh Parmar, Lynne Ann Samuelson, and Ferdinando F. Bruno

Application No.: 10/761,933 Group Art Unit: 1751

Filed: January 21, 2004 Examiner: Not Yet Assigned

Confirmation No.: 2164

Title: POLYMERIC ANTIOXIDANTS

<b>CERTIFICATE OF MAILING OR TRANSMISSION</b>	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on:	
<u>Aug. 17, 2004</u>	<u>Patricia L. Hillary</u>
Date	Signature
Patricia L. Hillary	
Typed or printed name of person signing certificate	

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted:

under 37 CFR 1.129(a), or  
(First/Second submission after Final Rejection)

under 37 CFR 1.97(b), or

(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

under 37 CFR 1.97(c) together with either:

a Statement under 37 CFR 1.97(e), as checked below, or

a \$180.00 fee under 37 CFR 1.17(p), or

(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

under 37 CFR 1.97(d) together with:

a Statement under 37 CFR 1.97(e), as checked below, and

a \$180.00 fee under 37 CFR 1.17(p), or

(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

under 37 CFR 1.97(i):

Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.

(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Enclosed herewith is form PTO-1449:

- Copies of the cited references are enclosed.
- Copies of the cited references are enclosed except those entered in prior application, U.S. Application No. 10/408,679, to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
- Since this application was filed after June 30, 2003, copies of issued U.S. patents and published U.S. applications not entered in the prior application are not required and are not being provided.
- The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
- The "concise explanation" requirement (non-English references) for reference(s) [ ] under 37 CFR 1.98(a)(3) is satisfied by:
  - the explanation provided on the attached sheet.
  - the explanation provided in the Specification.
  - submission of the enclosed International Search Report.
  - submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
  - the enclosed English language abstract.

[ ] Applicant requests that the following non-published pending applications be considered:

Examiner's  
Initials

\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]  
\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]  
\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

Examiner

Date

[ ] A copy of each above-cited application, including the current claims, is enclosed.  
[ ] A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

[ ] A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.  
[ ] Please charge Deposit Account 08-0380 in the amount of \$[ ]. A copy of this Statement is enclosed.  
[X] Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Jesse A. Fecker  
Jesse A. Fecker  
Registration No.: 52,883  
Telephone: (978) 341-0036  
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Concord, MA 01742-9133

Dated: 8-17-04

PTO-1449 REPRODUCED

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

August 13, 2004

(use several sheets if necessary)

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PATENT & TRADEMARK OFFICE  
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ATTORNEY DOCKET NO.  
0813.2002-004APPLICATION NO.  
10/761,933FIRST NAMED INVENTOR  
Ashok L. CholliFILING DATE  
January 21, 2004EXAMINER  
Not Yet AssignedCONFIRMATION NO.  
2164GROUP  
1751

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
	AA	3,996,160	12-07-1976	Dale <i>et al.</i>
	AB	4,377,666	03-22-1983	Farrar
	AC	US 2001/0041203 A1	11-15-2001	Uno <i>et al.</i>
	AD	US 2002/0183470 A1	12-05-2002	Tripathy <i>et al.</i>
	AE	5,994,498	11-30-1999	Tripathy <i>et al.</i>
	AF	6,018,018	01-25-2000	Samuelson <i>et al.</i>
	AG	6,150,491	11-21-2000	Akkara
	AH	5,143,828	09-01-1992	Akkara <i>et al.</i>
	AI	US 2003/0230743 A1	12-18-2003	Cholli <i>et al.</i>
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	AC3			

EXAMINER

DATE CONSIDERED

PTO-1449 REPRODUCED  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  August 13, 2004  (Use several sheets if necessary)		ATTORNEY DOCKET NO. 0813.2002-004	APPLICATION NO. 10/761,933
		FIRST NAMED INVENTOR Ashok L. Cholli	FILING DATE January 21, 2004
		EXAMINER Not Yet Assigned	CONFIRMATION NO. 2164
			GROUP 1751

FOREIGN PATENT DOCUMENTS				
	DOCUMENT NUMBER Country Code-Number-Kind Code (if known)	DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	TRANSLATION YES NO
AL	JP 09322784A	16 DEC 1997	Showa Denko	
AM	JP 57085366A	28 MAY 1982	Sankyo	
AN	JP 08027226A	30 JAN 1996	Itoen	
AO				
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		GROUP 1751

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

AR	Dordick, J.S. <i>et al.</i> , "Polymerization of Phenols Catalyzed by Peroxidase in Nonaqueous Media," <i>Biotechnology and Bioengineering</i> , XXX:31-36 (1987).
AS	Kazandjian, R.Z. <i>et al.</i> , "Enzymatic Analyses in Organic Solvents," <i>Biotechnology and Bioengineering</i> , XXVII:417-421 (1986).
AT	Klibanov, A.M. <i>et al.</i> , "Enzymatic Removal of Toxic Phenols and Anilines from Waste Waters," <i>J. Of Applied Biochemistry</i> , 2:414-421 (1980).
AU	Ikeda, R. <i>et al.</i> , "Novel Synthetic Pathway to a Poly(phenylene oxide). Laccase-Catalyzed Oxidative Polymerization of Syringic Acid," <i>Macromolecules</i> , 29:3053-3054 (1996).
AV	Akkara, J.A. <i>et al.</i> , "Synthesis and Characterization of Polymers Produced by Horseradish Peroxidase in Dioxane," <i>J. Of Polymer Science: Part A: Polymer Chemistry</i> , 29:1561-1574 (1991).
AW	Ayyagari, M.S. <i>et al.</i> , "Controlled Free-Radical Polymerization of Phenol Derivatives by Enzyme-Catalyzed Reactions in Organic Solvents," <i>Macromolecules</i> , 28:5192-5197 (1995).
AX	Ryu, K. <i>et al.</i> , "Peroxidase-Catalyzed Polymerization of Phenols," <i>American Chemical Society</i> (Chapter 10), 141-157 (1989).
AY	Zhang, Q.M. <i>et al.</i> , "Enzymatic Template Synthesis of Polyphenol," <i>Materials Research Society</i> , 600:255-259 (2000).
AZ	Akkara, J.A. <i>et al.</i> , "Hematin-Catalyzed Polymerization of Phenol Compounds," <i>Macromolecules</i> , 33:2377-2382 (2000).
AR2	Dordick, J.S., "Enzymatic catalysis in monophasic organic solvents," <i>Enzyme Microb. Technol.</i> , 11:194-211 (1989).
AS2	FS&T 821 "Food Lipids," [online], October 2001 [retrieved on 2002-10-29]. Retrieved from the Internet <URL: <a href="http://class.fst.ohio-state.edu/fst821/">http://class.fst.ohio-state.edu/fst821/</a> >.
AT2	FS&T 821 "Course Schedule," [online], October 2001 [retrieved on 2002-10-29]. Retrieved from the Internet <URL: <a href="http://class.fst.ohio-state.edu/fst821/">http://class.fst.ohio-state.edu/fst821/</a> >.

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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>		
AU2	FS&T 821 "Antioxidant," [online], October 2001 [retrieved on 2002-10-29]. Retrieved from the Internet <URL: <a href="http://class.fst.ohio-state.edu/fst821/">http://class.fst.ohio-state.edu/fst821/</a> >.	
AV2		
AW2		
AX2		
AY2		

EXAMINER	DATE CONSIDERED
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